

# Converting Colors

$Y_{xy}(44.3406, 0.2166, 0.2990)$

Have a look what the booklet for  
Yxy(44.3406, 0.2166, 0.2990)  
contains.

<b>Yxy(44.4635, 0.2167, 0.2994)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(44.4635, 0.2167, 0.2994)**

# Conversions

## Conversions Part 1

Format	Color
Hex	04C4D8
RGB	4, 196, 216
RGB Percent	2%, 77%, 85%
CMY	0.9860, 0.2313, 0.1529
CMYK	0.98, 0.09, 0.00, 0.15
HSL	186°, 97%, 43%
HSV	186°, 98%, 85%
XYZ	32.1818, 44.4635, 71.8634
YIQ	140.8720, -120.8520, -34.4840

# Conversions

## Conversions Part 2

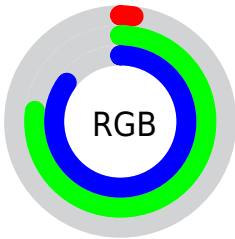
Format	Color
<a href="#">RYB</a>	<a href="#">4, 105, 216</a>
Decimal	<a href="#">312536</a>
CIELab	<a href="#">72.54, -33.13, -21.48</a>
CIELCh	<a href="#">73, 39.487, 212.958</a>
Yxy	<a href="#">44.4635, 0.2167, 0.2994</a>
Android (android.graphics.Color)	<a href="#">4278502616</a> ( <a href="#">0xFF04C4D8</a> )
YUV	<a href="#">140.8720, 37.0381, -120.0367</a>
Hunter-Lab	<a href="#">66.6810, -30.5433, -17.2213</a>

# Details

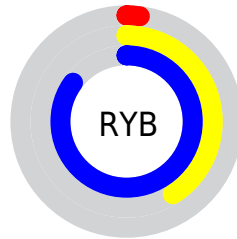
The Yxy color **44.4635, 0.2167, 0.2994** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **15.2452, 0.6307, 0.3355**, and the grayscale version is **26.4195, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.6587, 0.2403, 0.3265**, and **21.9192, 0.2144, 0.2918** is the 20% darker color. If you saturate the color by 10%, you get **44.2910, 0.2164, 0.2989**, and if you desaturate by 10%, it is **45.5750, 0.2191, 0.3026**.

# Distribution



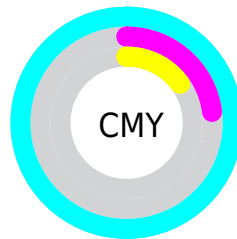
- Red (2%)
- Green (77%)
- Blue (85%)



- Red (2%)
- Yellow (41%)
- Blue (85%)



- Cyan (98%)
- Magenta (9%)
- Yellow (0%)
- Black (15%)




- Cyan (99%)
- Magenta (23%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.4635, 0.2167, 0.2994 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 44.4635, 0.2167, 0.2994 by changing the saturation by 10% instead.





 44.4635, 0.2167,  
0.2994

 44.4635, 0.2167,  
0.2994

364.5964, 0.2631,  
0.3159

 31.0351, 0.2058,  
0.2949


 81.9147, 0.2331,  
0.3057

 20.6255, 0.1921,  
0.2888

 106.7063, 0.2394,  
0.3080

 12.8506, 0.1747,  
0.2805


 136.0544, 0.2448,  
0.3099

 7.3257, 0.1520,  
0.2683

 170.3434, 0.2494,  
0.3115

 3.6666, 0.1216,  
0.2493

 209.9577, 0.2535,  
0.3128

 1.4889, 0.0750,  
0.2188

255.2817, 0.2571,

 0.2809, 0.0000,

0.3140

0.1191

306.6998, 0.2603,  
0.3150

■ 0.0000, 0.0000,  
0.0000

■ 44.4635, 0.2167,  
0.2994

■ 44.4635, 0.2167,  
0.2994

■ 44.2910, 0.2164,  
0.2989

■ 45.5750, 0.2191,  
0.3026

■ 46.9017, 0.2232,  
0.3058

■ 48.4943, 0.2292,  
0.3091

■ 50.3861, 0.2370,  
0.3124

■ 52.6050, 0.2468,  
0.3156

■ 55.1761, 0.2582,  
0.3187

■ 58.1216, 0.2710,  
0.3216

■ 61.4620, 0.2850,  
0.3244

■ 65.2162, 0.2999,  
0.3270

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



44.4635, 0.2431, 0.3548



44.4635, 0.2167, 0.2994



44.4635, 0.2136, 0.2597

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



44.4635, 0.2167, 0.2994



44.4635, 0.3295, 0.2661



44.4635, 0.3931, 0.4203

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



44.4635, 0.2167, 0.2994



15.2452, 0.6307, 0.3355

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



44.4635, 0.4217, 0.3865



44.4635, 0.2167, 0.2994



44.4635, 0.3842, 0.3010

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



44.4635, 0.2167, 0.2994



44.4635, 0.2744, 0.2449



44.4635, 0.4192, 0.3435



44.4635, 0.3441, 0.4308



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



44.4635, 0.2167, 0.2994



44.4635, 0.2244, 0.2453



44.4635, 0.4192, 0.3435



44.4635, 0.4055, 0.4108

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



44.4651, 0.2167, 0.2994



83.7529, 0.2685, 0.3211



49.1991, 0.2986, 0.5938



17.5312, 0.2629, 0.3198



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



44.4651, 0.2167, 0.2994



64.3621, 0.2163, 0.2986



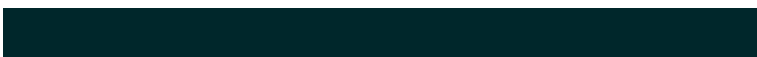
12.6508, 0.1705, 0.1325



13.8985, 0.2983, 0.3267



26.2969, 0.2165, 0.2994



1.6456, 0.2180, 0.3049



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



18.6649, 0.3459, 0.1684



27.0285, 0.3467, 0.1683



29.9162, 0.5150, 0.4280



12.6116, 0.3152, 0.3082



10.9995, 0.3460, 0.1680

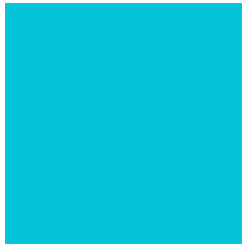


0.6694, 0.3411, 0.1653



# Previews

## White Background



This preview shows how the Yxy color 44.4635, 0.2167, 0.2994 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.4635, 0.2167, 0.2994 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

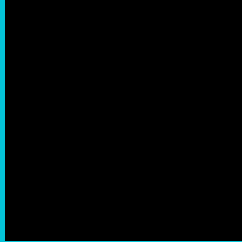
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 44.4635, 0.2167, 0.2994**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.4635, 0.2167, 0.2994.



This preview shows how white text looks on a background with the Yxy color 44.4635, 0.2167, 0.2994.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

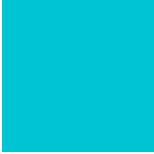
44.4635, 0.2167, 0.2994

### Protanopia

43.6949, 0.2891, 0.2938

### Deuteranopia

43.7655, 0.2747, 0.2684



## **Tritanopia**

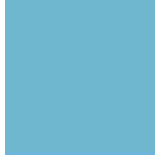
44.2333, 0.2181, 0.3050

# Trichromacy



## Original Color

44.4635, 0.2167, 0.2994



## Protanomaly

41.7515, 0.2451, 0.2945



## Deuteranomaly

41.4772, 0.2377, 0.2759



## Tritanomaly

44.2904, 0.2177, 0.3036

# Monochromacy



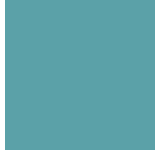
## Original Color

44.4635, 0.2167, 0.2994



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

30.5410, 0.2504, 0.3170

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.4635, 0.2167, 0.2994 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(4, 196, 216)` looks like.

```
.text, #text, p{  
    color:rgb(4, 196, 216)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(4, 196, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(4, 196, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 44.4635, 0.2167, 0.2994 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(4, 196, 216) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(4, 196, 216) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(4, 196, 216) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(4, 196, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(4, 196, 216);  
box-shadow:4px 4px 4px 4px rgb(4, 196,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.4635, 0.2167, 0.2994 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(4, 196, 216) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(4, 196,  
216) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor